

## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims of the application:

## **LISTING OF CLAIMS:**

Claims 1 to 11 (Cancelled).

12. (New) An antiseismic support pad comprising:

- a base configured to support and hold the pad on a support surface;
- at least one spherical rolling element mounted to rotate freely about a center of rotation in a bearing secured to the support base; and

- a support plate resting on the spherical rolling element via a concave bearing surface, wherein the base comprises:

- a soleplate secured to at least one bearing, configured to rest freely on the support surface and to hold the pad in place on the support surface without a fastener, and the support pad includes an arrangement configured to suspend the base from the support plate and move the base resiliently in radial directions about a support plate axis that is substantially perpendicular to the soleplate, the arrangement connected firstly to the support plate and secondly to the support base comprising the soleplate and the bearing.

13. (New) The antiseismic support pad according to claim 12, wherein the concave surface of the support plate bearing against the spherical rolling element is a surface of revolution having one of the following shapes: spherical, conical, paraboloidal and ellipsoidal.

14. (New) The antiseismic support pad according to claim 12, wherein the support pad has a single spherical rolling element rotatably mounted in a ball bearing having a center of rotation disposed on the axis of the support plate.

15. (New) The antiseismic support pad according to claim 12, further comprising:

a plurality of spherical rolling elements each disposed in a respective bearing, wherein centers of rotation of the bearings are disposed on at least one circle centered on the axis of the plate.

16. (New) The antiseismic support pad according to claim 15, wherein a central one of the bearings has a center of rotation on the axis of the plate, and the other bearings of the plurality of bearings are disposed around the axis such that centers of rotation of the spherical rolling elements of other bearings of the plurality of bearings are disposed on a circle centered on the center of rotation of the central bearing.

17. (New) The pad according to claim 12, wherein the arrangement configured to suspend the base from the support plate and move the base resiliently in radial directions about a support plate axis comprises:

at least three coil springs, each connected at a first longitudinal end to a peripheral portion of the support plate and at a second longitudinal end to an outer peripheral portion of the support base disposed inside the peripheral portion of the support plate, each of the springs having a longitudinal direction extending substantially radially relative to the plate and being upwardly inclined from an outer peripheral portion of the support base towards a peripheral portion of the plate, the springs being prestressed in traction so as to be configured to move the support base of the bearing and of the rolling element resiliently towards a position that is centered relative to the axis of the support plate and further configured to put the spherical rolling element into contact with an inner bearing surface of the plate while the soleplate is not in contact with a support surface, the support base freely suspended from the plate via the springs.

18. (New) An antiseismic pad according to claim 12, wherein the support plate comprises:

a top portion having a form of a bushing having an axis on the axis of the support plate, the bushing internally tapped over at least a fraction of its length and including a guide slot opening out in a outer side surface and extending along the axis of the support plate, the antiseismic pad further comprising an actuation shaft having a threaded portion engaged by screw-fastening in the tapped portion of the bushing of the plate along the axis of the plate, and at least one guide and engagement part in which the shaft is mounted to rotate about the axis of the support plate and secured in translation with the at least one guide part including a guide element having a guide peg inserted in the slot of the bushing of the plate for guiding the plate in axial translation, whereby turning the shaft secured in axial translation with at least one engagement and guide part so as to screw it in or out relative to the tapped opening of the bushing of the plate, causes the engagement and guide part to move in translation along the axis of the plate relative to the support plate.

19. (New) A support device for supporting a structure of a transportable installation capable of being put into place on a support surface, the support device comprising:

- at least three antiseismic support pads having a base configured to support and hold the pad on a support surface;

- at least one spherical rolling element mounted to rotate freely about a center of rotation in a bearing secured to the support base; and

- a support plate resting on the spherical rolling element via a concave bearing surface, wherein the base comprises:

- a soleplate secured to at least one bearing, configured to rest freely on the support surface and to hold the pad in place on the support surface without a fastener, and the support pad includes an arrangement configured to suspend the base from the support plate and move the base resiliently in radial directions about a support plate axis that is substantially perpendicular to the soleplate, the arrangement connected firstly to the support plate and secondly to the support base comprising the soleplate and the bearing; and

- a rigid frame resting on the support plates of the antiseismic pads.

20. (New) The support device according to claim 19, wherein the device is configured to enable a vertical direction of a tall and slender structure of an installation secured to the support device to be adjusted, the support device including at least one adjustable antiseismic pad having a top portion having a form of a bushing having an axis on the axis of the support plate, the bushing internally tapped over at least a fraction of its length and including a guide slot opening out in a outer side surface and extending along the axis of the support plate, the antiseismic pad further comprising an actuation shaft having a threaded portion engaged by screw-fastening in the tapped portion of the bushing of the plate along the axis of the plate, and at least one guide and engagement part in which the shaft is mounted to rotate about the axis of the support plate and secured in translation with the at least one guide part including a guide element having a guide peg inserted in the slot of the bushing of the plate for guiding the plate in axial translation, whereby turning the shaft secured in axial translation with at least one engagement and guide part so as to screw it in or out relative to the tapped opening of the bushing of the plate, causes the engagement and guide part to move in translation along the axis of the plate relative to the support plate wherein the engagement and guide part is secured to the rigid frame of the support device and is configured to be movable in translation along the axis of the support plate of the antiseismic pad by turning the actuation shaft.

21. (New) The support device according to claim 20, wherein the support device has a frame of generally one of square and rectangular shape and four adjustable antiseismic pads, each secured via a respective engagement and guide part to a respective corner portion of the frame.

22. (New) A method to support and examine a nuclear power assembly in a pool of a nuclear power station, comprising:

providing an installation being totally independent and capable of being installed without fittings in the pool of the nuclear power station, the installation configured to stand on a bottom of the pool via soleplates of

support devices, wherein the installation has an arrangement configured to handle fuel assemblies without reliance on a fuel assembly handling apparatus of the nuclear power station; and  
one of supporting and examining the assembly with the installation.